

**UNCLASSIFIED**

PE NUMBER: 0207590F  
 PE TITLE: Seek Eagle

Exhibit R-2, RDT&E Budget Item Justification								DATE February 2004	
BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0207590F Seek Eagle					
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	16.080	19.421	23.159	21.152	18.319	21.712	22.047	0.000	0.000
4037 SEEK EAGLE Certifications	16.080	19.421	23.159	21.152	18.319	21.712	22.047	0.000	0.000

(U) **A. Mission Description and Budget Item Justification**

The Air Force has a variety of combat aircraft and numerous stores (munitions, missiles, fuel tanks, electronic countermeasures pods, etc.). Aircraft carry these stores in countless different loading combinations determined by operational scenarios, missions, and tactics. Loading configurations change as operational plans and tactics change, and as new aircraft and stores are developed and produced. Before operational use, the Air Force must certify these configurations for safe loading, carriage, and separation (jettison and normal release), and must verify ballistics accuracy under the user-certified carriage and employment parameters. The Air Force SEEK EAGLE program completes these certifications through any combination of ground and flight testing, wind tunnel testing, modeling and simulation, and engineering analysis. Over 700 aircraft-store combinations exist to be certified, with new ones added on a regular basis. Depending upon the complexity, certification takes from months to years. The SEEK EAGLE program is also responsible for insertion of new and emerging technologies into the SEEK EAGLE process and providing resources for sustainment of a viable Air Force aircraft-store certification capability. Electronic Technical Orders are developed through the Combat Weapons Delivery Software (CWDS), creating cost savings by eliminating paper technical orders. SEEK EAGLE funds are currently budgeted to support certification for new weapons programs including Wind Corrected Munitions Dispenser (WCMD), Joint Direct Attack Munition (JDAM), Joint Air to Surface Standoff Missile (JASSM), Joint Standoff Weapon (JSOW), AIM-9X, AIM-120 C5 (AMRAAM), and many other inventory stores on inventory aircraft. Planning and budgeting estimations are in progress for future certifications of weapons on F/A-22 and the Joint Strike Fighter (JSF).

The RDT&E Budget Activity is 7, Operational System Development, because the program supports fielded systems.

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	16.792	19.587	23.220
(U) Current PBR/President's Budget	16.080	19.421	23.159
(U) Total Adjustments	-0.712	-0.166	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.166	
Congressional Increases			
Reprogrammings	-0.226		
SBIR/STTR Transfer	-0.486		
(U) <u>Significant Program Changes:</u>			

**Exhibit R-2a, RDT&E Project Justification**

DATE  
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>				<b>PE NUMBER AND TITLE</b> <b>0207590F Seek Eagle</b>			<b>PROJECT NUMBER AND TITLE</b> <b>4037 SEEK EAGLE Certifications</b>		
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
4037 SEEK EAGLE Certifications	16.080	19.421	23.159	21.152	18.319	21.712	22.047	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

**(U) A. Mission Description and Budget Item Justification**

The Air Force has a variety of combat aircraft and numerous stores (munitions, missiles, fuel tanks, electronic countermeasures pods, etc.). Aircraft carry these stores in countless different loading combinations determined by operational scenarios, missions, and tactics. Loading configurations change as operational plans and tactics change, and as new aircraft and stores are developed and produced. Before operational use, the Air Force must certify these configurations for safe loading, carriage, and separation (jettison and normal release), and must verify ballistics accuracy under the user-certified carriage and employment parameters. The Air Force SEEK EAGLE program completes these certifications through any combination of ground and flight testing, wind tunnel testing, modeling and simulation, and engineering analysis. Over 700 aircraft-store combinations exist to be certified, with new ones added on a regular basis. Depending upon the complexity, certification takes from months to years. The SEEK EAGLE program is also responsible for insertion of new and emerging technologies into the SEEK EAGLE process and providing resources for sustainment of a viable Air Force aircraft-store certification capability. Electronic Technical Orders are developed through the Combat Weapons Delivery Software (CWDS), creating cost savings by eliminating paper technical orders. SEEK EAGLE funds are currently budgeted to support certification for new weapons programs including Wind Corrected Munitions Dispenser (WCMD), Joint Direct Attack Munition (JDAM), Joint Air to Surface Standoff Missile (JASSM), Joint Standoff Weapon (JSOW), AIM-9X, AIM-120 C5 (AMRAAM), and many other inventory stores on inventory aircraft. Planning and budgeting estimations are in progress for future certifications of weapons on F/A-22 and the Joint Strike Fighter (JSF).

The RDT&E Budget Activity is 7, Operational System Development, because the program supports fielded systems.

**(U) B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Accomplishments/Planned Program	0.000	0.000	0.000
(U) Continue development of F/A-22 data and engineering models to use for follow-on F/A-22 weapons certification	0.500	1.000	2.000
(U) Conduct various automation projects and automated Technical Orders/mission planning projects using CWDS	2.850	3.300	3.300
(U) Continue/complete various technology process improvement projects and aircraft load/separation prediction capabilities using ACFD (Applied Computational Fluid Dynamics)	2.661	2.768	2.950
(U) Conduct various aircraft-store certifications on USAF fighter and bomber aircraft	10.069	12.353	14.909
(U) Total Cost	16.080	19.421	23.159

**(U) C. Other Program Funding Summary (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E									
(U) Other APPN									

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

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BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

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4037 SEEK EAGLE Certifications

(U) **C. Other Program Funding Summary (\$ in Millions)**

(U) Proc of Ammunition, AF\*

(U) - JDAM (PE 0207327F)	0.297	0.143	0.000	0.000	0.103	0.000	0.000	Continuing	TBD
(U) - WCMD (PE 0207600F)	0.000	0.133	0.000	0.000	0.096	0.000	0.000	Continuing	TBD
(U) Missile Procurement, AF*									
(U) - JSOW (PE 0207324F)	0.000	0.964	0.000	0.958	0.000	0.000	0.000	Continuing	TBD
(U) - AIM-120 C5 (AMRAAM) (PE 0207163F)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) - AIM-9X (PE 0207161F)	1.751	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) - JASSM (PE 0207325F)	3.735	1.433	2.837	0.000	2.842	0.000	0.000	Continuing	TBD

\* Note: The SEEK EAGLE procurement dollars shown above are appropriated in each weapon's P-1 line.

(U) **D. Acquisition Strategy**

Budget authorization for procurement funds are given directly to the weapon system program offices, who then procure the required certification test articles through the weapon production contract.

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**Exhibit R-3, RDT&E Project Cost Analysis**

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**February 2004**

BUDGET ACTIVITY			PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE				
<b>07 Operational System Development</b>			<b>0207590F Seek Eagle</b>					<b>4037 SEEK EAGLE Certifications</b>				
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>Cost to</u>	<u>Total</u>	<u>Target</u>
			<u>Prior to FY</u>	<u>2003</u>	<u>2003</u>	<u>2004</u>	<u>2004</u>	<u>2005</u>	<u>2005</u>	<u>Complete</u>	<u>Cost</u>	<u>Value of</u>
			<u>2003</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Contract</u>
			<u>Cost</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>			
(U) <u>Product Development</u>												
Lockheed Martin	C/CPFF	Marietta, GA	5.045	0.500		1.000		2.000		7.103	15.648	
Leigh Aerosystems	FFP	Carlsbad, CA	0.943	0.000		0.000		0.000		0.000	0.943	
Subtotal Product Development			5.988	0.500		1.000		2.000		7.103	16.591	0.000
Remarks:												
(U) <u>Support</u>												
Mission Support	PO/REO	Eglin AFB, FL	11.154	0.700		0.800		0.900		Continuing	TBD	
Subtotal Support			11.154	0.700		0.800		0.900		Continuing	TBD	0.000
Remarks:												
(U) <u>Test &amp; Evaluation</u>												
46th Test Wing	PO/REO	Eglin AFB, FL	117.348	8.871		10.921		12.159		Continuing	TBD	
AEDC	PO/REO	Eglin AFB, FL	16.857	0.909		1.100		1.500		Continuing	TBD	
Various	PO/REO	Eglin AFB, FL	59.868	5.100		5.600		6.600		Continuing	TBD	
Subtotal Test & Evaluation			194.073	14.880		17.621		20.259		Continuing	TBD	0.000
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			211.215	16.080		19.421		23.159		Continuing	TBD	0.000

## Exhibit R-4, RDT&amp;E Schedule Profile

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BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207590F Seek Eagle

PROJECT NUMBER AND TITLE

4037 SEEK EAGLE Certifications

The SEEK EAGLE program does not execute in accordance with established acquisition program milestones. Each aircraft-store configuration requested by the user goes through the SEEK EAGLE process by the designated user priority.

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<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2004</b>
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BUDGET ACTIVITY <b>07 Operational System Development</b>	PE NUMBER AND TITLE <b>0207590F Seek Eagle</b>	PROJECT NUMBER AND TITLE <b>4037 SEEK EAGLE Certifications</b>
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	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) <b><u>Schedule Profile</u></b>			
(U) JDAM	1-4Q	1-4Q	
(U) WCMD		1-4Q	
(U) AIM-9X (Sidewinder)	1-4Q		
(U) JSOW		1-4Q	
(U) JASSM	1-4Q	1-4Q	1-4Q

Note: The SEEK EAGLE program does not execute in accordance with established acquisition program milestones. Each aircraft-store configuration requested by the user goes through the SEEK EAGLE process by the designated user priority.